KittyWumpus:
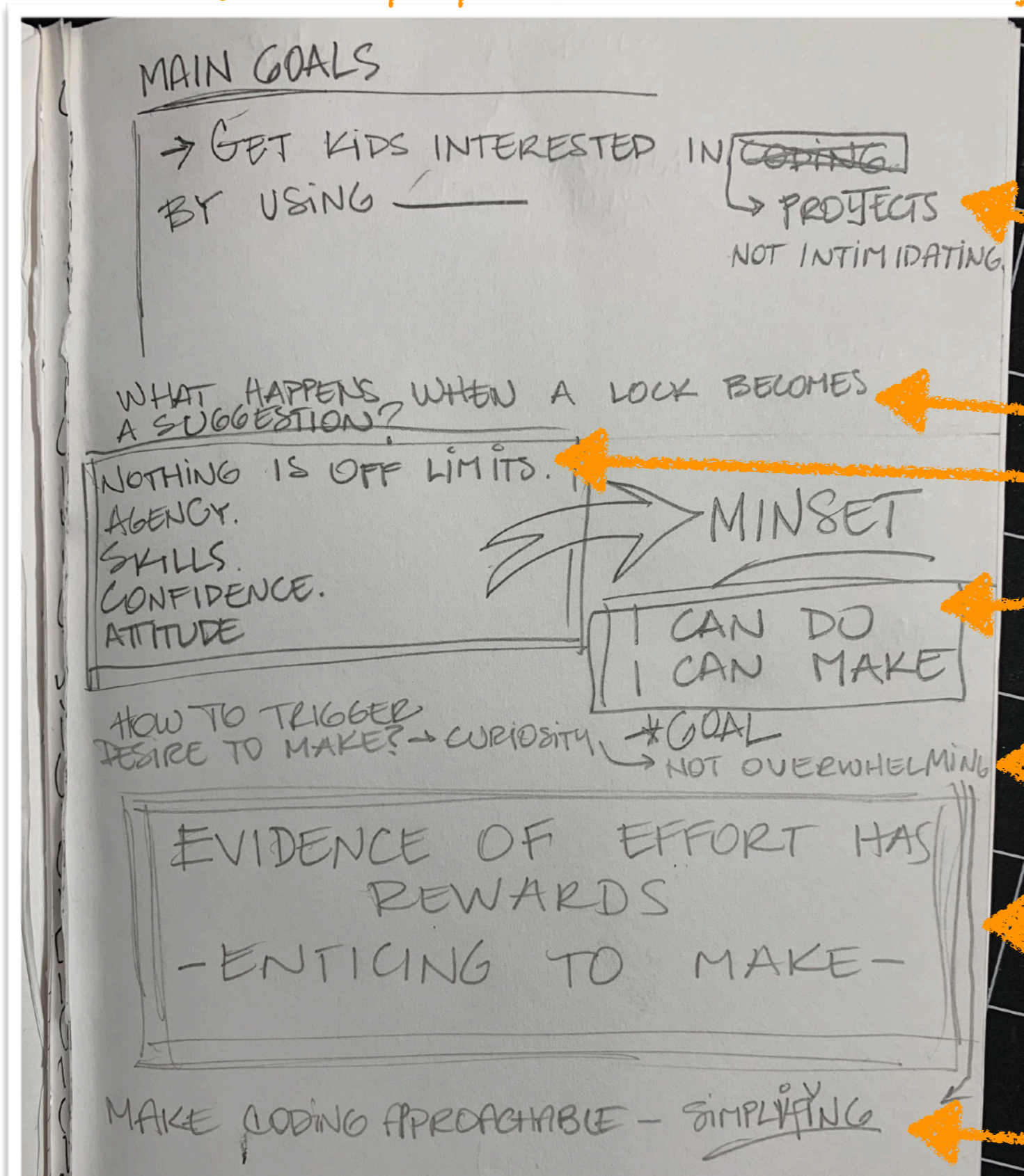

Art / Outside

Ana's Notebook

The next few pages are of Ana's notebook. It is a great idea to sketch out your ideas and goals / purposes behind them before you start iterating on a project.

MAIN GOALS

→ GET KIDS INTERESTED IN ~~CODING~~
BY USING _____   → PROJECTS
                                  NOT INTIMIDATING.

Learning Goals First

Start with Art

WHAT HAPPENS WHEN A LOCK BECOMES
A SUGGESTION?

NOTHING IS OFF LIMITS.
AGENCY.
SKILLS.   → MINSET
CONFIDENCE.
ATTITUDE   I CAN DO
                           I CAN MAKE

Inspiration, not Instructions

Starting with a Blank Slate

Mindset

HOW TO TRIGGER
DESIRE TO MAKE? → CURIOSITY   *GOAL
                              NOT OVERWHELMING

Right Sized Challenges

EVIDENCE OF EFFORT HAS
REWARDS
- ENTICING TO MAKE -

Internal Motivation

MAKE CODING APPROACHABLE - SIMPLIFYING

Not Intimidating

First Sketch

MOVING PARTS

SERVO

FLUFFY TAIL
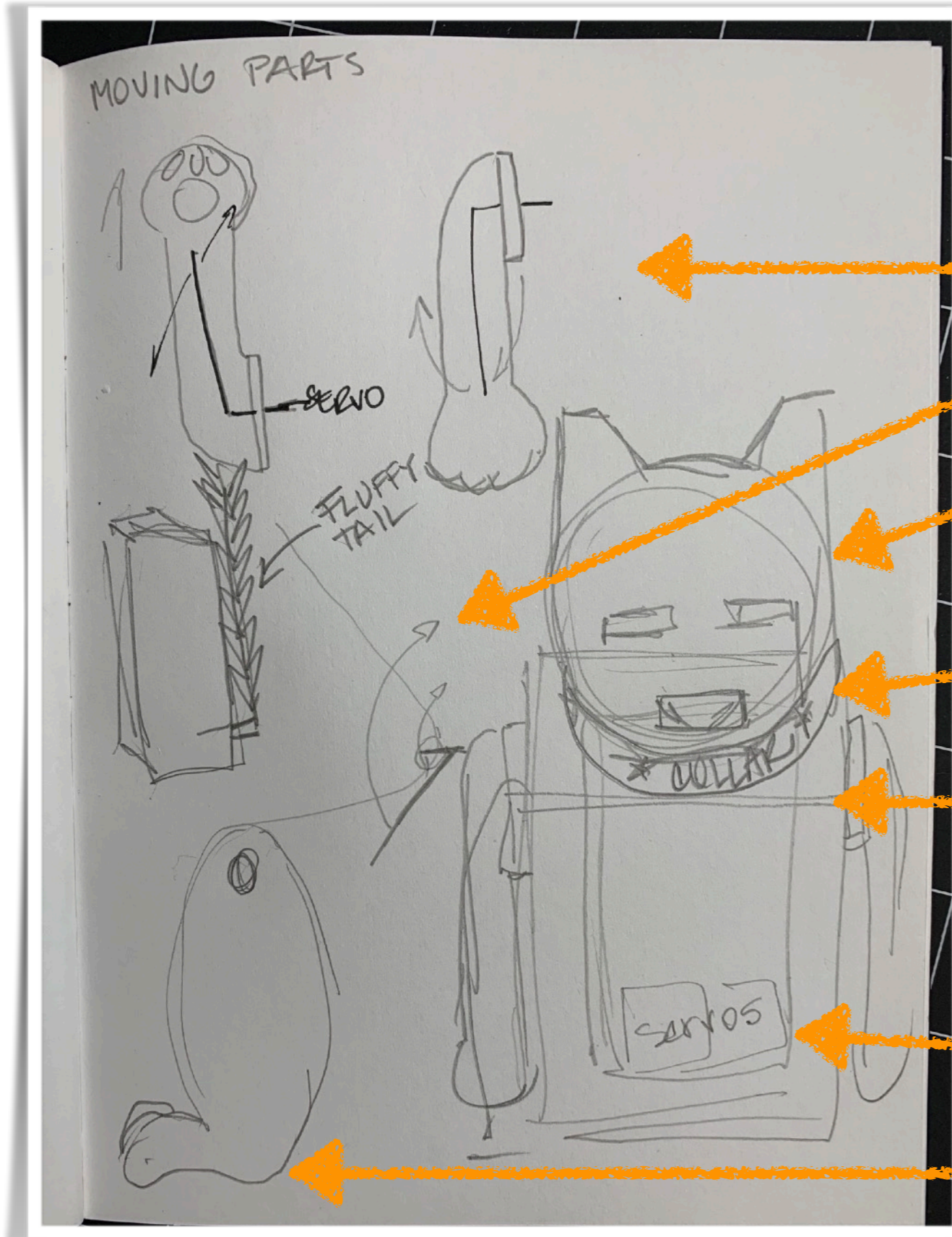
COLLAR

servos

- Explore Movement
- Drawing Circles and Rectangles
- LED Collar?
- Single Wood Dower for Sholder
- Servos in Bottom of Box
- Profile Sketch Limbs
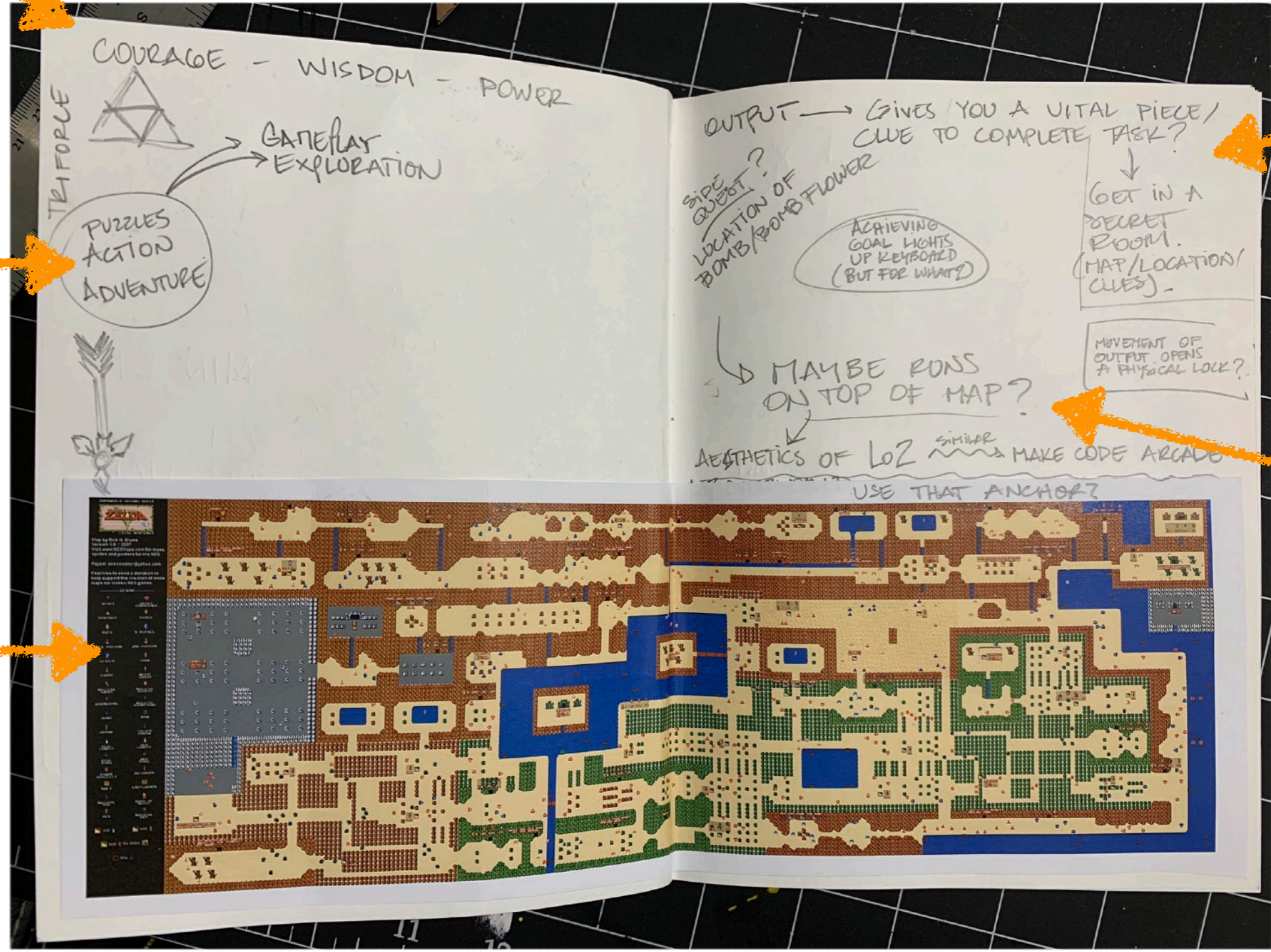
Ana's Notebook, Page 3

Character Themes

COURAGE — WISDOM — POWER

TRIFORCE

→ GAMEPLAY EXPLORATION

Game Play Feeling

PUZZLES
ACTION
ADVENTURE

Output

OUTPUT → GIVES YOU A VITAL PIECE / CLUE TO COMPLETE TASK?

SIDE QUEST?
LOCATION OF BOMB / BOMB FLOWER

ACHIEVING GOAL LIGHTS UP KEYBOARD (BUT FOR WHAT?)

GET IN A SECRET ROOM. (MAP / LOCATION / CLUES).

MOVEMENT OF OUTPUT OPENS A PHYSICAL LOCK?

Player Placement

MAYBE RUNS ON TOP OF MAP?

AESTHETICS OF LoZ   similar   MAKE CODE ARCADE

USE THAT ANCHOR?

Zelda Map Inspiration

Ana's first iteration used a foam-board chassis. The 2nd iteration uses minimal new materials and maximizes up-cycling using the cardboard packaging that came with a cordless toothbrush.

Foam-board

Up-cycled box
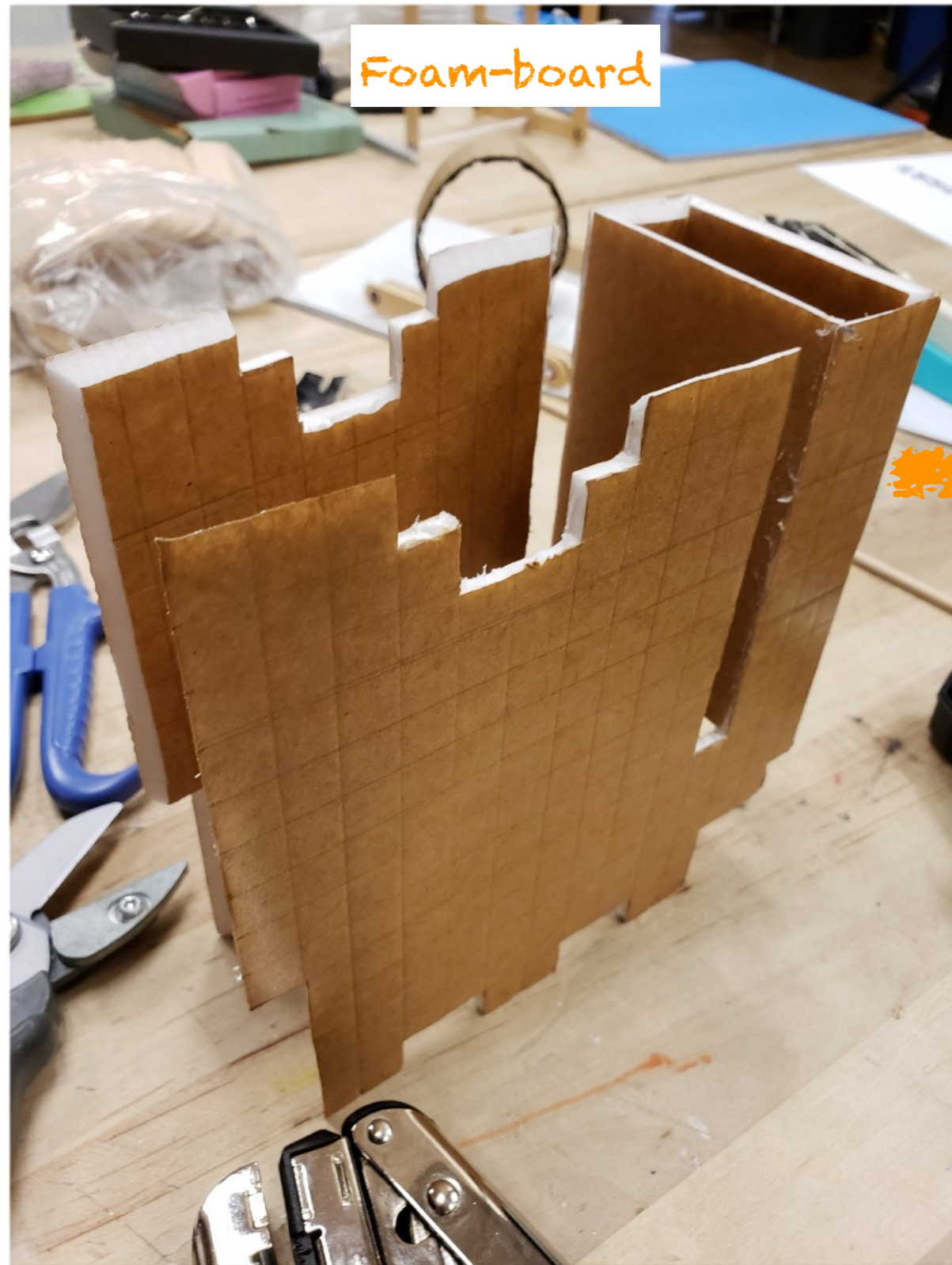
Toothbrush Box

Slide-out Inner Compartment

Box Dimensions:
4" x 10" x 7'

Tape Sides of the Box

Tape the box closed to align inner and out box for cutting holes through both layers.

Make the Neck

Form a ring about 3 inches in diameter and 2 inches tall for the neck

Align the Neck

Secret Amazing Tool called a Canary Knife works great on cardboard and foam-board.

Transfer the outline of the neck onto the box front face.

Neck Hole

We decided to use foam-board for the neck because it was harvested from a prior project

Cut a hole in both layers of the box with an X-acto knife or a Canary knife

Glue the Neck

Weighty Reading

The neck is glued over the hole.
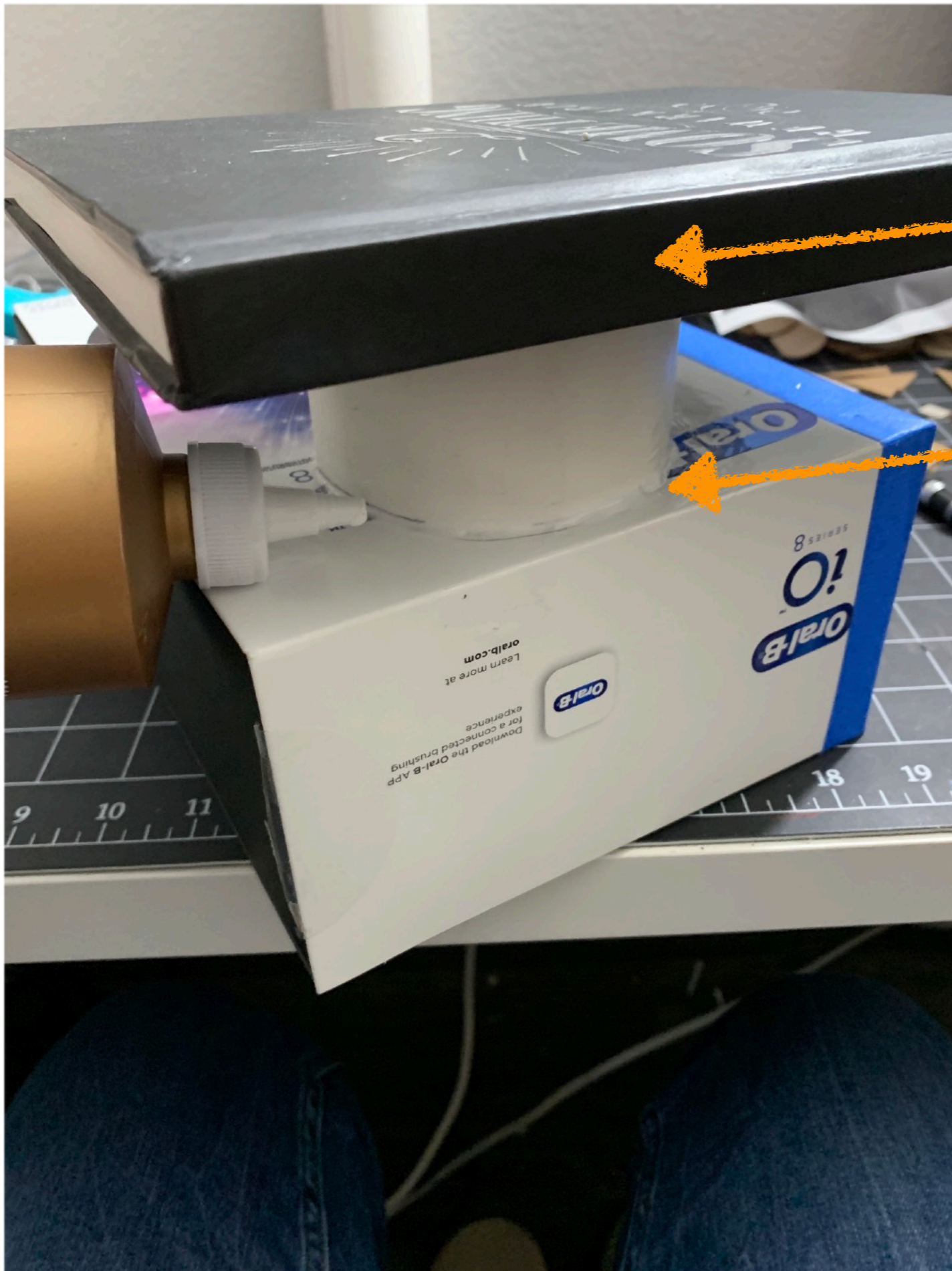
Insert Neck into Hole
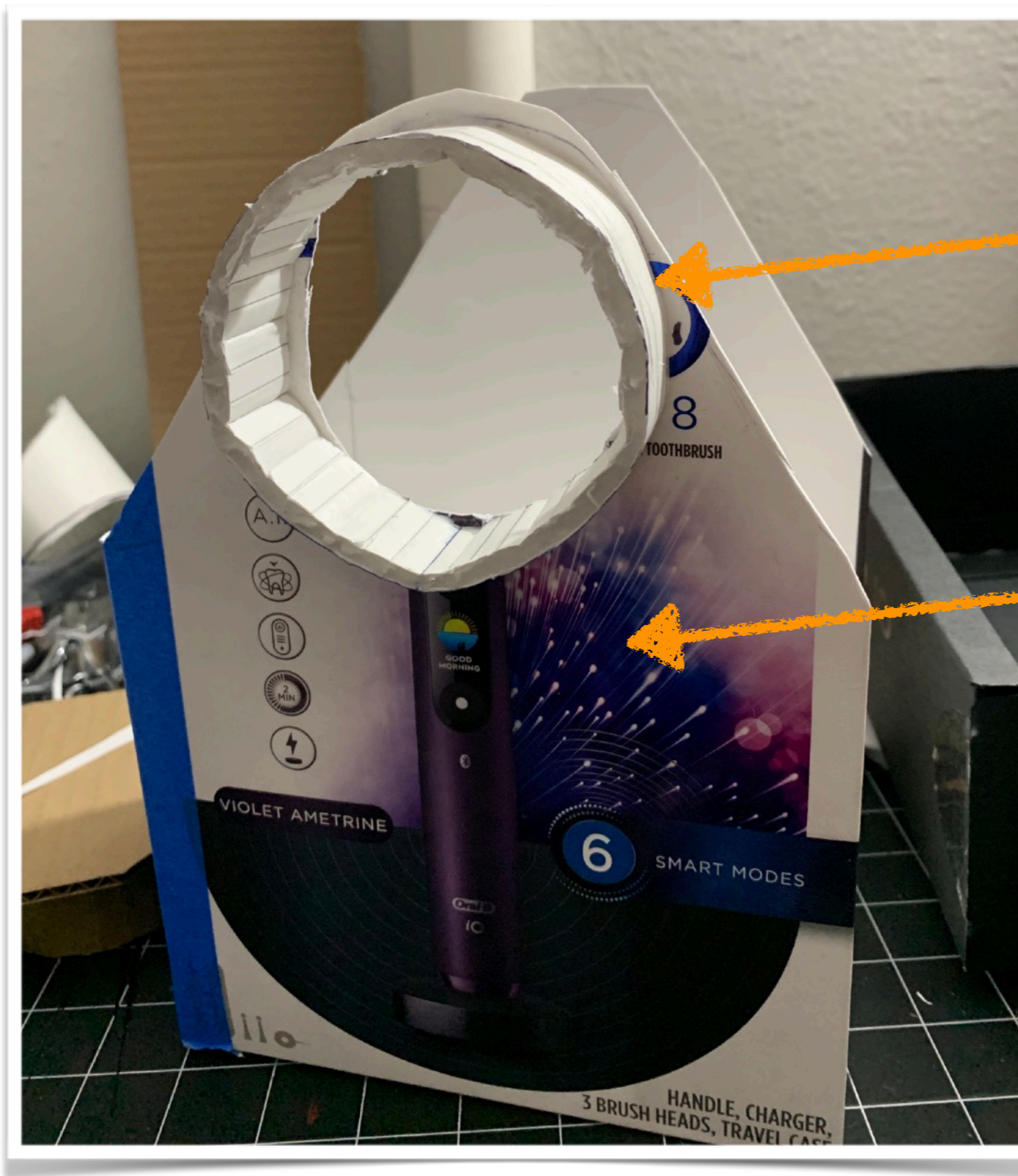
The neck will be glued over the hole. In a future iteration it would be fun to put a servo in the neck and rotate the face.

Inner box removed and both the back and front are trimmed at 45 on the top half of the box.

Cut the Outer Neck layer

The face will be able to slide on and off of the body. We will cut a strip of cardboard the same depth of the neck and roll it to the right size to slip onto the foam-board cylinder. The Face will be etched to he the cardboard ring.

Making the Neck Sleeve, part 2

Curve the strip by pushing each ridge into a desk edge.

Bend the strip further making sure the curve is even across the surface.

Glue the edges of the strip forming the a loop.

Use masking tape to reinforce the glued edge.
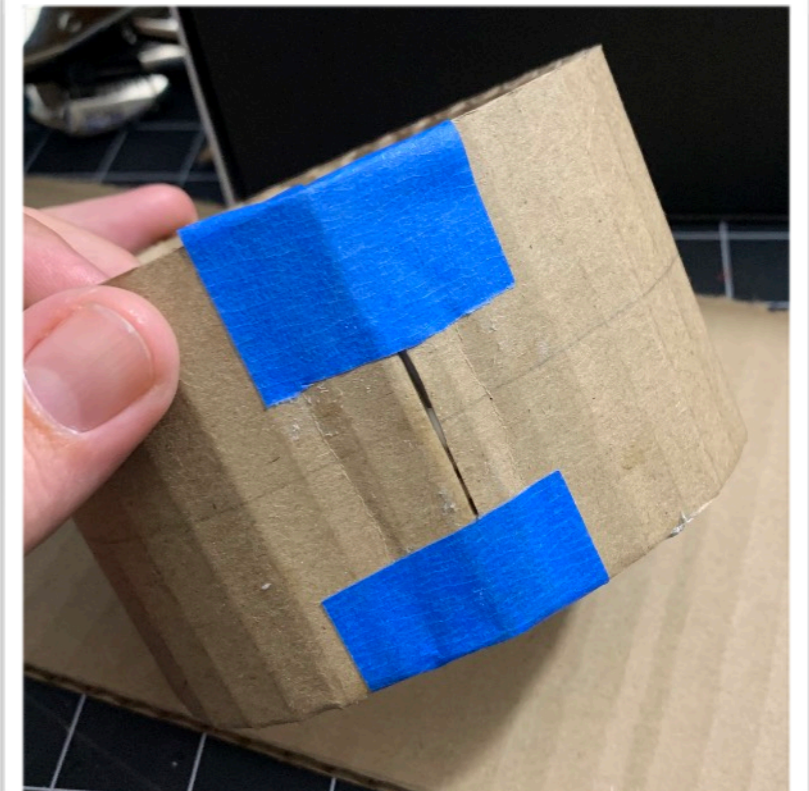
Kitty Feet, part #1

The cardboard feet are made from one cardboard strip and one flat piece for each foot.

Kitty Feet, part #2

Glue each strip around the flat part of the foot.

Cut 1cm cardboard squares and use tacky glue to place individual "pixels". Taking the time to cut the squares really adds to the 3D look of your adventure companion!

Pixel Map

The physical manifestation of your adventure companion can be a little different than the pixel map. The main thing is to get the colors and outline shape close to the pixel map you design for your sprite in MakeCode Arcade
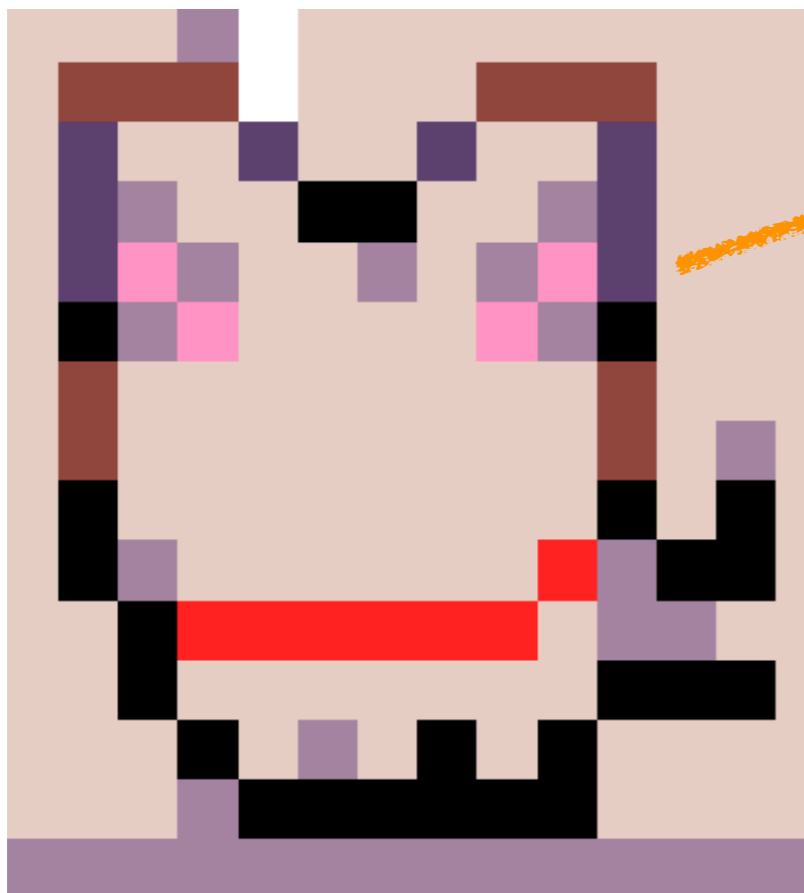
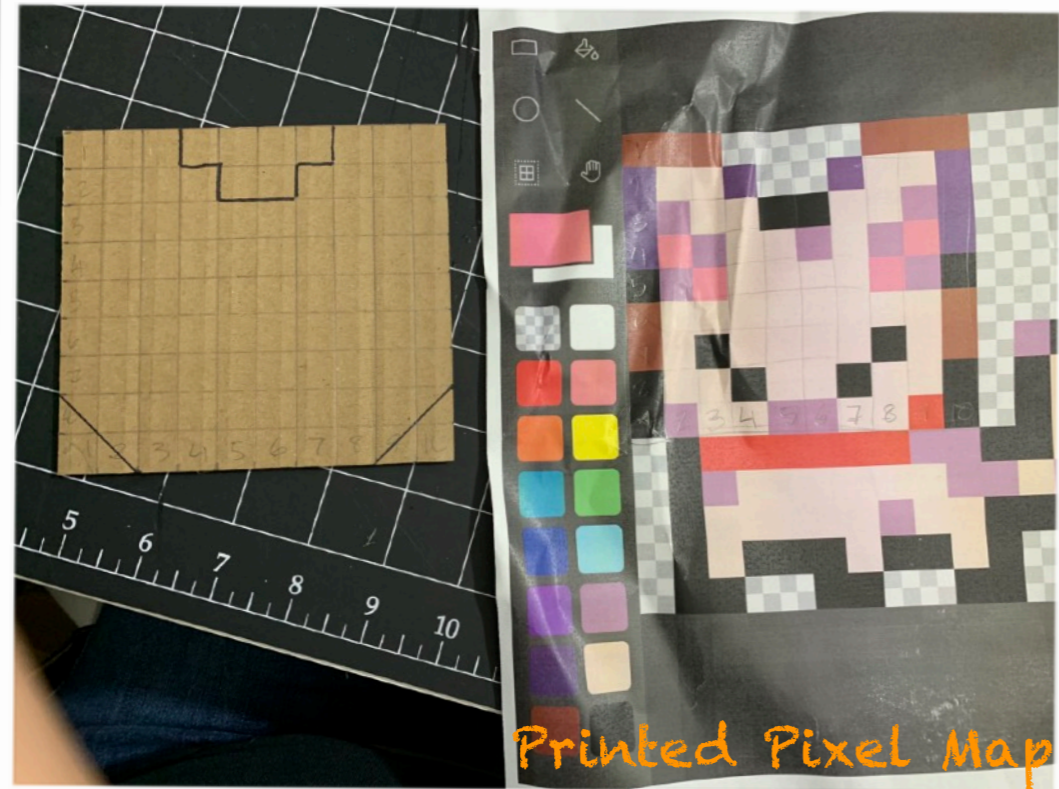Sprite Pixel Map from MakeCode Arcade

Physical Model

Print the Pixel Map

Printed Pixel Map
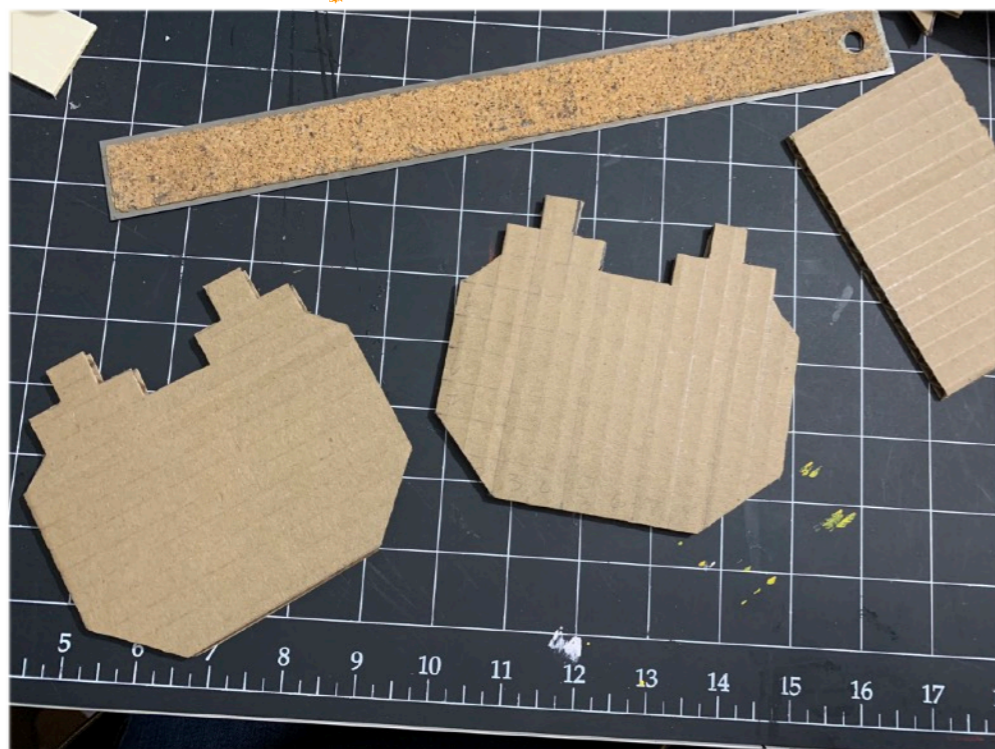
Painted Face

Making the Face

Mark the outline of the face

Printed Pixel Map

Cut the outline of the face

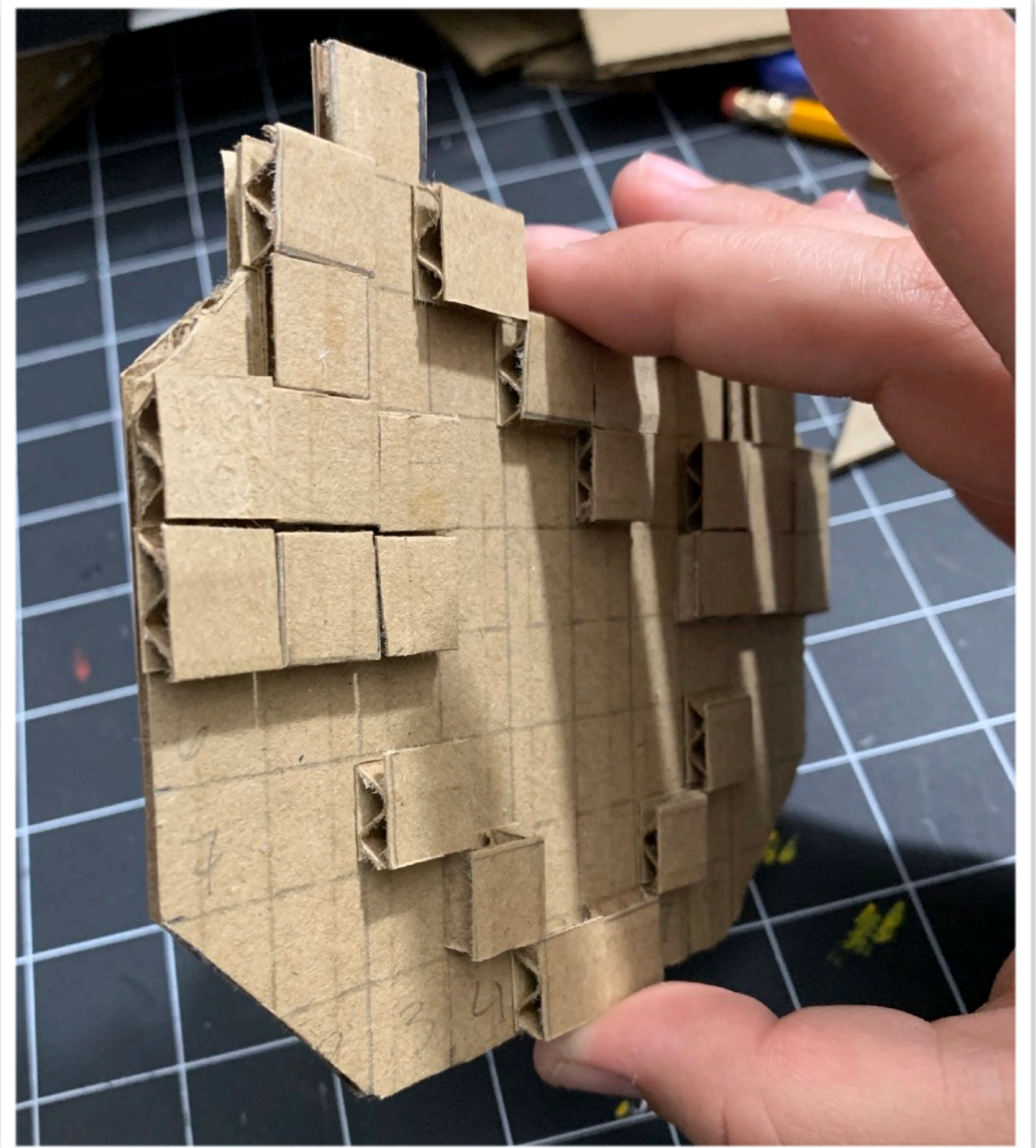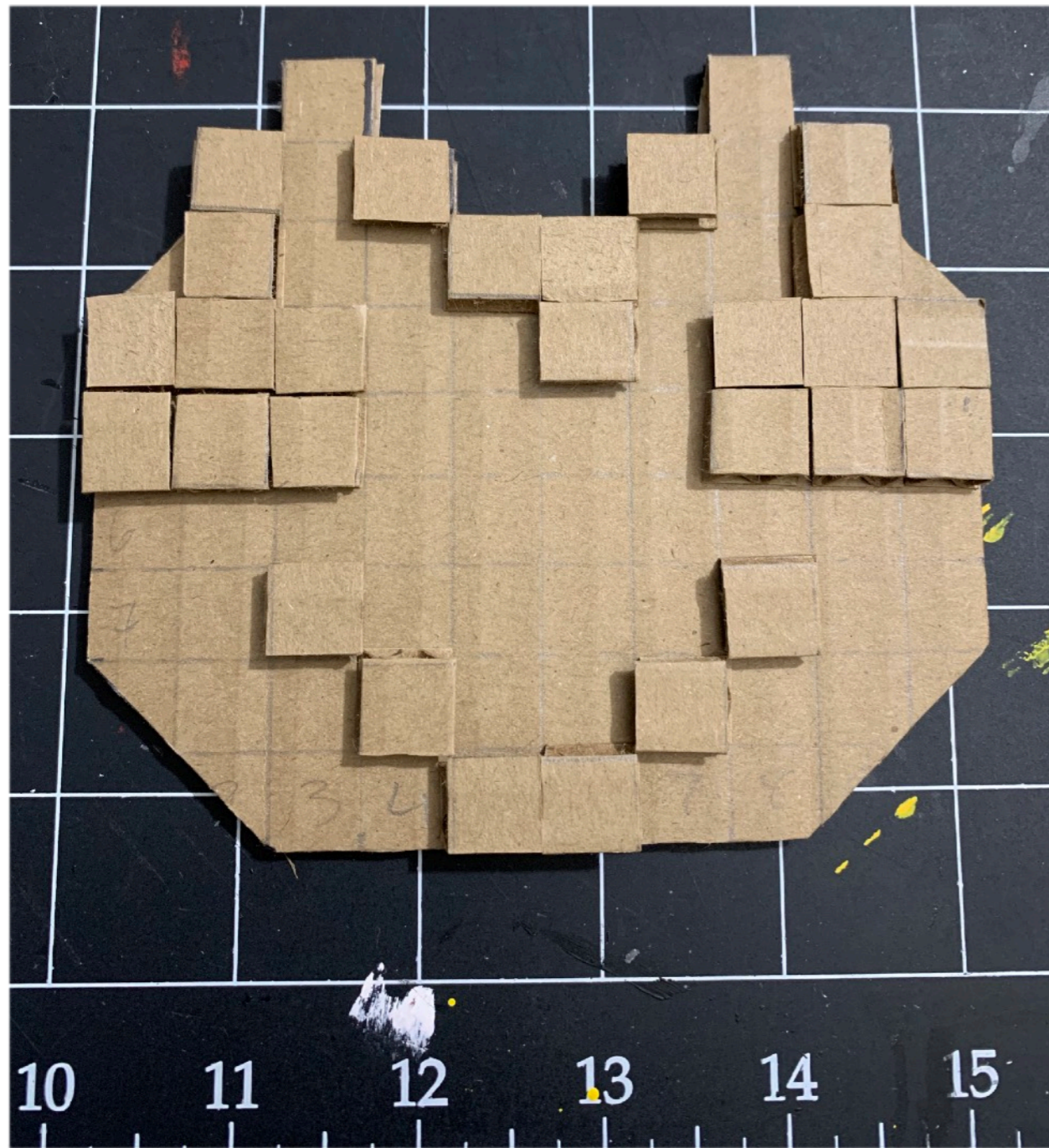## Cut a 2nd layer to thicken the face

Cut out 1cm square pixels

Pixelate the Face

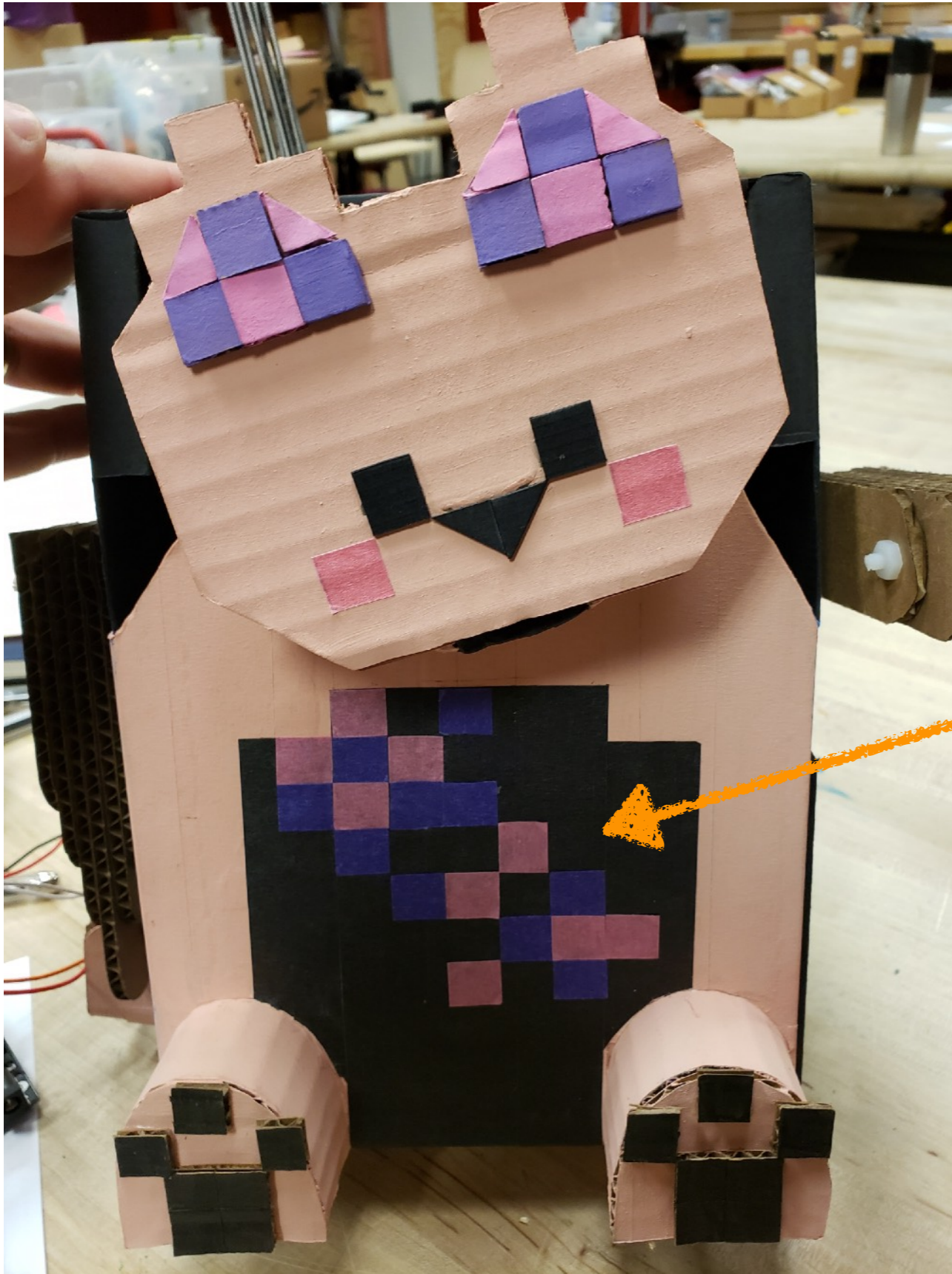Draw a faint pencil grid to align the pixels and glue them in place.

Glue the Face to the Neck

The face is glued to the cardboard strip that forms the neck. Then, slide the cardboard neck over the foam-board inner neck cylinder.

Masking Tape Decoration

The decoration on the belly was done with masking tape. The flat tape compliments the paint colors, but adds additional contract to the depth of the cardboard pixels on the face and feet.